

**ROUTING AND STORAGE WITHIN A COMPUTER NETWORK****ABSTRACT**

A router includes a computer-readable medium storing routing information mapping destinations to routes within a network. A storage manager software module executing within an operating environment provided by the router receives a network communication including an asset having a pixel data and non-pixel data, and stores the asset to a storage device. A validation software module validates the non-pixel data in parallel with the storage of the asset. A routing module forwards the storage asset to a network destination in accordance with the routing information upon the validation of the non-pixel data.